Kindly rewrite the claims to read as follows:

1.   (Original)   A system for facilitating transdermal delivery of an active agent through skin of a subject comprising: an apparatus capable of generating at least one micro-channel in an area on the skin of the subject, and a patch comprising at least one drug reservoir layer, the at least one drug reservoir layer comprising a polymeric matrix and a pharmaceutical composition comprising as an active agent at least one therapeutic or immunogenic peptide, polypeptide, or protein.

2.   (Original)   The system according to claim 1, wherein the apparatus comprises:

      a. an electrode cartridge comprising a plurality of electrodes; and

      b. a main unit comprising a control unit, which is adapted to apply electrical energy to the electrodes when the electrodes are in vicinity of the skin, enabling ablation of stratum corneum in an area beneath the electrodes, thereby generating at least one micro-channel.

3.   (Original)   The system according to claim 2, wherein the electrode cartridge is adapted to generate a plurality of micro-channels of uniform shape and dimensions.

4.   (Original)   The system according to claim 2, wherein the electrical energy is of radio frequency.

5.   (Original)   The system according to claim 1, wherein the polymeric matrix is selected from the group consisting of hydrophilic biopolymers, hydrophilic synthetic polymers, derivatives and combinations thereof.

6.   (Original)   The system according to claim 5, wherein the biopolymer is selected from the group consisting of hydroxypropyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose, carrageenans, chitin, chitosan, alginates, collagens, gelatin, pectin, glycosaminoglycans (GAGs), proteoglycans, fibronectins, and laminins.

7. (Original)   The system according to claim 6, wherein the biopolymer is selected from the group consisting of collagens and carrageenans.

8. (Original)   The system according to claim 5, wherein the hydrophilic synthetic polymer is selected from the group consisting of polyglycolic acid (PGA), polylactic acid (PLA), polypropylene oxide, polyethylene oxide, polyoxyethylene-polyoxypropylene copolymers, polyvinylalcohol, polyethylene glycol, and polyurethanes.

9. (Original)   The system according to claim 8, wherein the hydrophilic synthetic polymer is polyethylene oxide.

10. (Original)   The system according to claim 1, wherein the drug reservoir layer is formulated in a form selected from a dry form, a semi-dry form, a hydrogel, and a solution.

11. (Currently amended)   The system according to claim 1, wherein the active agent is selected from the group consisting of growth factors, hormones, cytokines, water-soluble drugs, antigens, antibodies, fragments and analogs thereof.

12. (Original)   The system according to claim 1, wherein the active agent is selected from the group consisting of insulin, proinsulin, follicle stimulating hormone, insulin like growth factor-1, insulin like growth factor-2, platelet derived growth factor, epidermal growth factor, fibroblast growth factors, nerve growth factor, transforming growth factors, tumor necrosis factor, calcitonin, parathyroid hormone, growth hormone, bone morphogenic protein, erythropoietin, hemopoietic growth factors, luteinizing hormone, glucagon, clotting factors, anti-clotting factors, atrial natriuretic factor, lung surfactant, plasminogen activators, bombesin, thrombin, enkephalinase, relaxin A-chain, relaxin B-chain, prorelaxin, inhibin, activin, vascular endothelial growth factor, hormone receptors, growth factor receptors, integrins, protein A, protein D, rheumatoid factors, neurotrophic factors, CD proteins, osteoinductive factors, immunotoxins, interferons, colony stimulating factors, interleukins (ILs), superoxide dismutase, surface membrane proteins, T-cell receptors, decay accelerating factor, viral

4

antigens, transport proteins, homing receptors, addressins, regulatory proteins, analogs, derivatives and fragments thereof.

13. (Original) The system according to claim 12, wherein the active agent is growth hormone or insulin.

14. (Original) The system according to claim 1, wherein the drug reservoir layer comprises a collagen and human growth hormone (hGH).

15. (Original) The system according to claim 1, wherein the drug reservoir layer comprises a collagen and human insulin.

16. (Original) The system according to claim 1, wherein the drug reservoir layer comprises polyethylene oxide and human growth hormone.

17. (Original) The system according to claim 1, wherein the drug reservoir layer comprises polyethylene oxide and human insulin.

18. (Original) The system according to claim 1, wherein the drug reservoir layer comprises a carrageenan and human growth hormone.

19. (Original) The system according to claim 1, wherein the drug reservoir layer comprises a carrageenan and human insulin.

20. (Currently amended) The system according to any of claims 1 to 19, wherein the patch further comprises at least one of the following layers: a backing layer, an adhesive, and a rate-controlling layer.

21. (Currently amended) The system according to any of claims 1 to 20, wherein the pharmaceutical composition further comprises at least one component selected from the group consisting of protease inhibitors, stabilizers, anti-oxidants, buffering agents, and preservatives.

22. (Currently amended) A patch adapted for transdermal delivery of an active agent comprising at least one drug reservoir layer, the at least one drug reservoir layer comprising a hydrophilic polymeric matrix and a pharmaceutical composition

5

comprising as an~~the~~ active agent ~~selected from~~ a therapeutic or immunogenic peptide, polypeptide, ~~and~~ or protein.

23. (Original)   The patch according to claim 22, wherein the hydrophilic polymeric matrix is selected from the group consisting of biopolymers, hydrophilic synthetic polymers, derivatives and combinations thereof.

24. (Original)   The patch according to claim 23, wherein the biopolymer is selected from the group consisting of hydroxypropyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose, carrageenans, chitin, chitosan, alginates, collagens, gelatin, pectin, glycosaminoglycans (GAGs), proteoglycans, fibronectins, and laminins.

25. (Original)   The patch according to claim 24, wherein the biopolymer is selected from the group consisting of collagens and carrageenans.

26. (Original)   The patch according to claim 23, wherein the hydrophilic synthetic polymer is selected from the group consisting of polyglycolic acid (PGA), polylactic acid (PLA), polypropylene oxide, polyethylene oxide, polyoxyethylene-polyoxypropylene copolymers, polyvinylalcohol, polyethylene glycol, and polyurethanes.

27. (Original)   The patch according to claim 26, wherein the hydrophilic synthetic polymer is polyethylene oxide.

28. (Original)   The patch according to claim 22, wherein the drug reservoir layer is formulated in a form selected from a dry form, a semi-dry form, a hydrogel, and a solution.

29. (Original)   The patch according to claim 22, wherein the active agent is selected from the group consisting of growth factors, hormones, cytokines, water-soluble drugs, antigens, antibodies, fragments and analogs thereof.

30. (Original)   The patch according to claim 22, wherein the active agent is selected from the group consisting of insulin, proinsulin, follicle stimulating hormone, insulin like growth factor-1, insulin like growth factor-2, platelet derived growth factor, epidermal growth factor, fibroblast growth factors, nerve growth factor, transforming growth factors, tumor necrosis factor, calcitonin, parathyroid hormone, growth

6

hormone, bone morphogenic protein, erythropoietin, hemopoietic growth factors, luteinizing hormone, glucagon, clotting factors, anti-clotting factors, atrial natriuretic factor, lung surfactant, plasminogen activators, bombesin, thrombin, enkephalinase, relaxin A-chain, relaxin B-chain, prorelaxin, inhibin, activin, vascular endothelial growth factor, hormone receptors, growth factor receptors, integrins, protein A, protein D, rheumatoid factors, neurotrophic factors, CD proteins, osteoinductive factors, immunotoxins, interferons, colony stimulating factors, interleukins (ILs), superoxide dismutase, T-cell receptors, surface membrane proteins, decay accelerating factor, viral antigens, transport proteins, homing receptors, addressins, regulatory proteins, analogs, derivatives and fragments thereof.

31. (Original)   The patch according to claim 30, wherein the active agent is growth hormone or insulin.

32. (Currently amended)   The patch according to any of claims 22 to 31, wherein the patch further comprises at least one of the following layers: a backing layer, an adhesive, and a rate-controlling layer.

33. (Currently amended)   The patch according to any of claims 22 to 32, wherein the pharmaceutical composition further comprises at least one component selected from the group consisting of protease inhibitors, stabilizers, anti-oxidants, buffering agents, and preservatives.

34. (Original)   A method for sustained transdermal delivery of a therapeutic or immunogenic agent, the method comprising:

   a.   generating at least one micro-channel in a region on the skin of a subject;

   b.   affixing a patch to the region of skin in which the at least one micro-channel is present, the patch comprising at least one drug reservoir layer, wherein the drug reservoir layer comprises a polymeric matrix and a pharmaceutical composition comprising a therapeutic or immunogenic peptide, polypeptide, or protein; and

   c.   achieving a therapeutic blood concentration of the peptide, polypeptide, or protein for at least 6 hours.

35. (Original)   The method according to claim 34, wherein the polymeric matrix is selected from the group consisting of hydrophilic biopolymers, hydrophilic synthetic polymers, derivatives and combinations thereof.

36. (Original)   The method according to claim 35, wherein the biopolymer is selected from the group consisting of hydroxypropyl cellulose, carboxymethyl cellulose, hydroxyethyl cellulose, carrageenans, chitin, chitosan, alginates, collagens, gelatin, pectin, glycosaminoglycans (GAGs), proteoglycans, fibronectins, and laminins.

37. (Original)   The method according to claim 36, wherein the biopolymer is selected from the group consisting of collagens and carrageenans.

38. (Original)   The method according to claim 35, wherein the hydrophilic synthetic polymer is selected from the group consisting of polypropylene oxide, polyethylene oxide, polyoxyethylene-polyoxypropylene copolymers, polyvinylalcohol, polyurethanes.

39. (Original)   The method according to claim 38, wherein the hydrophilic synthetic polymer is polyethylene oxide.

40. (Original)   The method according to claim 34, wherein the drug reservoir layer is formulated in a form selected from a dry form, a semi-dry form, a hydrogel, and a solution.

41. (Original)   The method according to claim 34, wherein the active agent is selected from the group consisting of growth factors, hormones, cytokines, water-soluble drugs, antigens, antibodies, fragments and analogs thereof.

42. (Original)   The method according to claim 34, wherein the active therapeutic or immunogenic agent is selected from the group consisting of insulin, proinsulin, follicle stimulating hormone, insulin like growth factor-1, insulin like growth factor-2, platelet derived growth factor, epidermal growth factor, fibroblast growth factors, nerve growth factor, transforming growth factors, tumor necrosis factor, calcitonin, parathyroid hormone, growth hormone, bone morphogenic protein, erythropoietin,

hemopoietic growth factors, luteinizing hormone, glucagon, clotting factors, anti-clotting factors, atrial natriuretic factor, lung surfactant, plasminogen activators, bombesin, thrombin, enkephalinase, relaxin A-chain, relaxin B-chain, prorelaxin, inhibin, activin, vascular endothelial growth factor, hormone receptors, growth factor receptors, integrins, protein A, protein D, rheumatoid factors, neurotrophic factors, CD proteins, osteoinductive factors, immunotoxins, interferons, colony stimulating factors, interleukins (ILs), superoxide dismutase, T-cell receptors, surface membrane proteins, decay accelerating factor, viral antigens, transport proteins, homing receptors, addressins, regulatory proteins, analogs, derivatives and fragments thereof.

43.   (Original)   The method according to claim 42, wherein the therapeutic agent is growth hormone or insulin.

44.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises a collagen and human growth hormone.

45.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises a collagen and human insulin.

46.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises polyethylene oxide and human growth hormone.

47.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises polyethylene oxide and human insulin.

48.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises carrageenan and human growth hormone.

49.   (Original)   The method according to claim 34, wherein the drug reservoir layer comprises carrageenan and human insulin.

50.   (Currently amended)   The method according to any of claims 34 to 49, wherein the patch further comprises at least one of the following layers: a backing layer, an adhesive, and a rate-controlling layer.

51. (Currently amended) The method according to ~~any of~~ claims 34 ~~to 50~~, wherein the pharmaceutical composition further comprises at least one component selected from the group consisting of protease inhibitors, stabilizers, anti-oxidants, buffering agents and preservatives.